## Appendix A

Detailed Description of the Methods Used to Characterize the Lithology Underlying the INEEL CERCLA Disposal Facility (ICDF)

#### Appendix A

# Detailed Description of the Methods Used to Characterize the Lithology Underlying the INEEL CERLA Disposal Facility (ICDF)

#### A-1. Methods Used to Characterize Lithology

The lithology penetrated by the wells at Idaho Nuclear Technology and Engineering Center (INTEC) was determined by using geologic and geophysical data. The geologic data were obtained from drill rig geologists' records and, where available, down-hole video logs and core or drill cuttings. The geophysical data were obtained from the U.S. Geological Survey (USGS) well logging program. When the geophysical data are combined with the geologic data, lithologic descriptions can be given with a good degree of confidence.

The lithologic features of particular interest are weathering, fracturing, vesicularity, color, grain or crystal size, bedding, sorting, and rock type. These features indicate position within a flow or sediment unit and may, in some cases, be correlated with similar features penetrated by other boreholes.

#### A-1.1 Geologic Methods

The geologic methods used to determine the lithologic features previously listed rely heavily on the geologists' descriptions of core and drill cuttings, as well as an understanding of how different geologic environments affect actual drilling operations.

The most reliable source of geologic data is from core. A geologist using a standardized method of rock description describes the core. Core collected at the INTEC facility during the tenure of Westinghouse Idaho Nuclear Company (WINCO) was logged to the WINCO Environmental Restoration Project Directive 1.33 "Geologic Logging," (ER PD 1.33) logging standard. The core descriptions include a complete and detailed description of weathering, structures, color, grain size, strength, and rock type as well as core recovery, a rock quality index, and fracture density.

The lithology of individual coreholes was determined from first physically examining the core and specifically logging all fractures, weathering, interbeds, and inferred flow unit breaks. All cores from drilling projects prior to the year 2000 drilling project were physically relogged at the USGS Lithologic Core Archive Library located at the Central Facilities Area. For the A-A' cross-section, this included the cores from USGS-123 and all six of the perched water (PW) wells. Core from the year 2000 drilling project percolation pond well set was examined during drilling by the rig geologist for obvious flow unit breaks and was reexamined through the use of core photographs during this interpretation.

This stratigraphic interpretation is based mostly on wells where physical core has been collected and examined. The archived core is stored at the USGS core library located at the Central Facilities Area

The lithology of core from USGS-123 was used for the primary control on the A-A' cross-section. The lithology was determined by carefully examining the core and by using the geophysical logs to establish vertical control where core was not recovered. The core was examined to provide the initial lithologic descriptions and relate the geophysical responses found in the natural-gamma and neutron logs to the specific lithology in the corehole. Additionally, detailed subsampling and description of the petrology, paleomagnetism, and radiometric dates of the corehole were provided in Lanphere et al. (1993).

Lithologic units were extended through the USGS cable tooled boreholes after examining the core from the coreholes located on the section line. Anderson (1991) stratigraphic units were used in the USGS cable tooled boreholes.

Other geologic data sources that were used include drill cuttings, observation of drilling, and the down-hole video. Drill cuttings provide an estimate of weathering, color, vesicularity, fracture filling materials, and rock type, all of which are recorded by the rig geologist. In addition to sample descriptions, observing the drill rig provides information on fractures, rock strength and consolidation, and rock type (i.e., interbed sediments versus basalt). A down-hole video log provides information on fracture density and orientation. The information recorded by the drill rig geologist is used in conjunction with a down-hole video camera to provide a fair record of the lithology penetrated by the borehole.

#### **A-1.2 Geophysical Methods**

The borehole geophysical methods used to determine the lithologic features include natural-gamma logs, neutron logs, density or gamma-gamma logs, and caliper logs. The natural-gamma and neutron logs are the primary sources of geophysical data.

#### A-2. Significant Stratigraphic Units

- The base of the surface sediments: The base of the surface sediments is included, because it is easily identified in all boreholes from the drillers' and geologists' logs and also from the geophysical logs. The base of the surface sediments provides an upper bound for the stratigraphic interpretation. It is defined as the contact between the uppermost basalt flow and the overlying sediments.
- CD Basalt Flow: The CD basalt is characterized by a higher-than-average natural-gamma count. The CD basalt flow is typically absent from the east and southeast extremes of the INTEC, but where it is present, it is easily distinguished by the unusual natural-gamma signature and provides a marker horizon in the upper regions of the stratigraphic column.
- DE5 Basalt: The DE5 basalt is among the thickest and most massive basalt flows found in the INTEC subsurface, with a typical thickness of nearly 100 ft. The base of the unit appears to be relatively flat-lying, while the upper surface of the unit has a south-to-southwest slope. The upper surface may also have several depressions across the INTEC area. The unit is greatest in thickness near the INTEC sewage lagoons and thins as the distance from the sewage lagoon increases. The unit is distinguishable in coreholes by its massive structure and in geophysical logs by its generally low-moisture neutron signature. The base of the DE5 basalts overlies a series of thin basalt flows and sediments that make up the DE6 and DE7 stratigraphic units. These sediments are the last significant set of sediments in the stratigraphic column above the top of the Snake River Plain Aquifer.

#### A-3. References

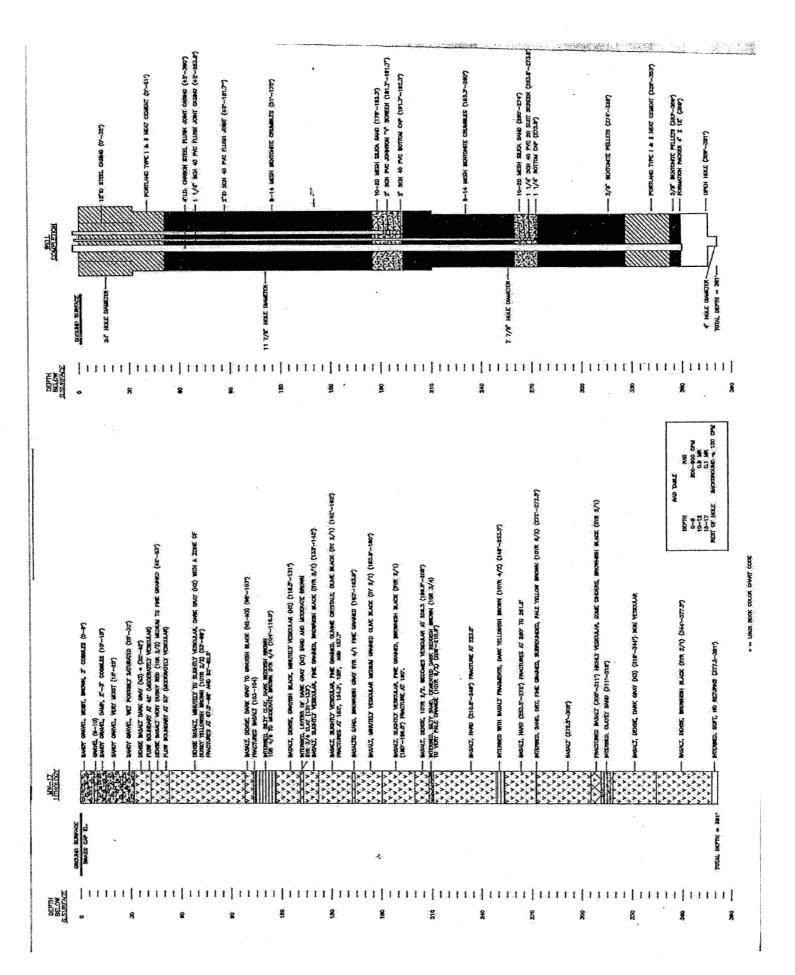
- Anderson, S. R., 1991, Stratigraphy of the Unsaturated Zone and Uppermost Part of the Snake River Plain Aquifer at the Idaho Chemical Processing Plant and Test Reactors Area, Idaho National Engineering Laboratory, Idaho, USGS Water-Resources Investigations Report 91-4010, DOE/ID-22095, January, 71 p.
- Lanphere, M. A., Champion, D. E., Kuntz, M. A., 1993, Petrography, Age, and Paleomagnetism of Basalt Flows in Coreholes Well 80, NRF 89-04, NRE 89-05, and ICPP 123, Idaho National Engineering Laboratory, Idahol, U.S. Geological Survey Open File Report 93-327.

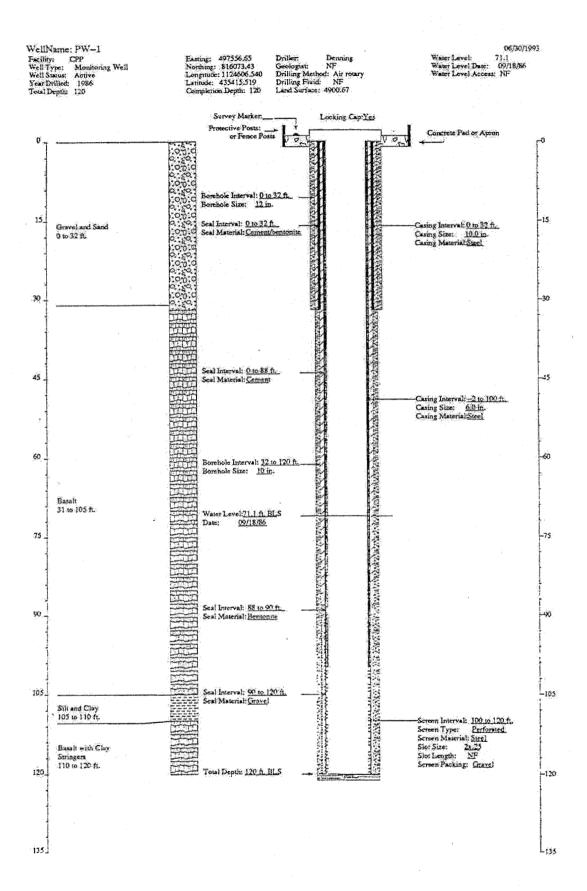
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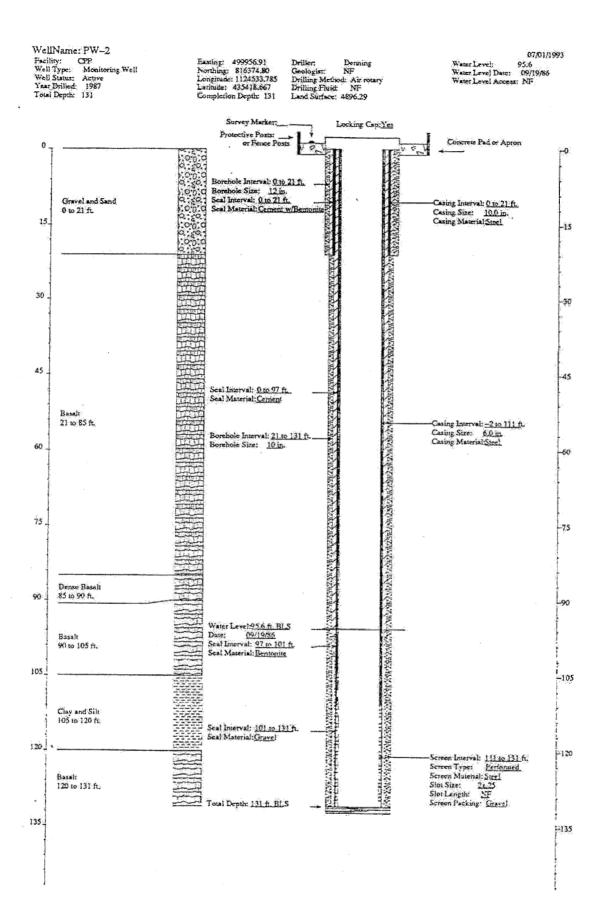
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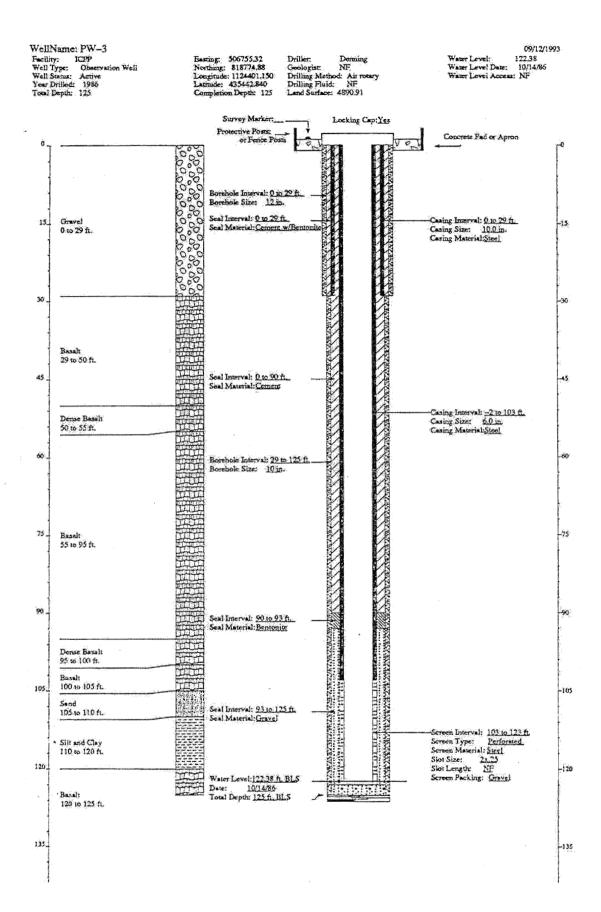
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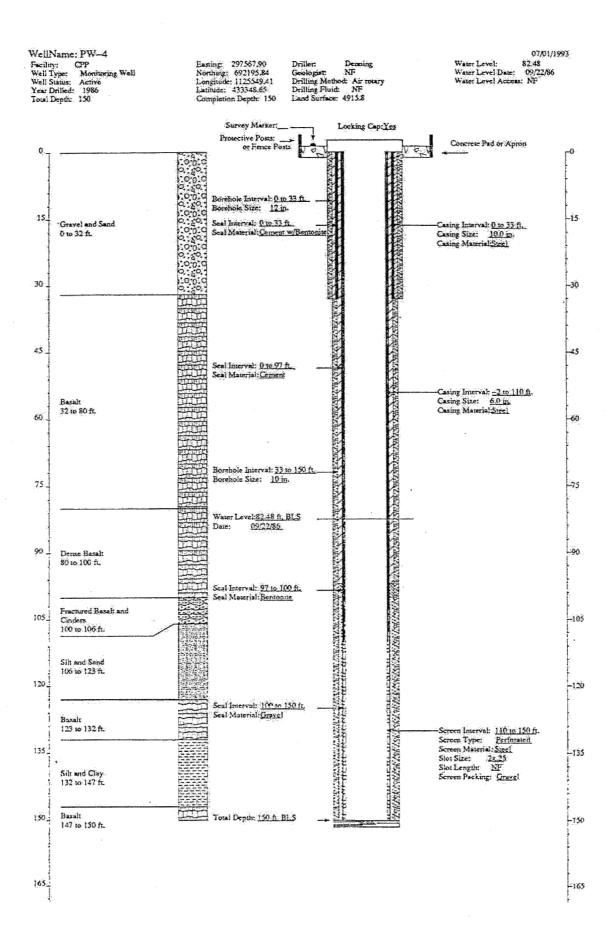
Lithologic Logs and Geophysical Logs for PW Series
Perched Water Wells and Aquifer Wells in the Vicinity of the
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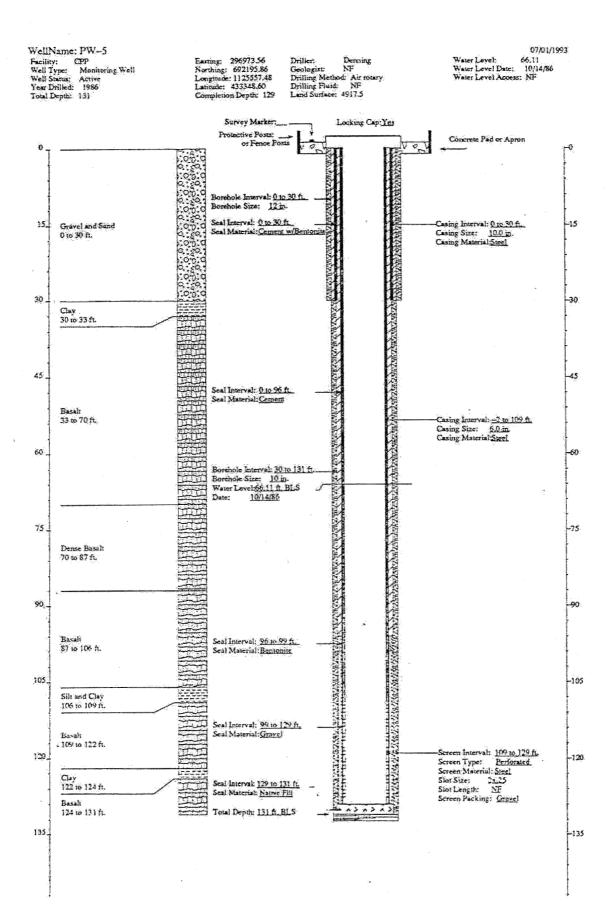


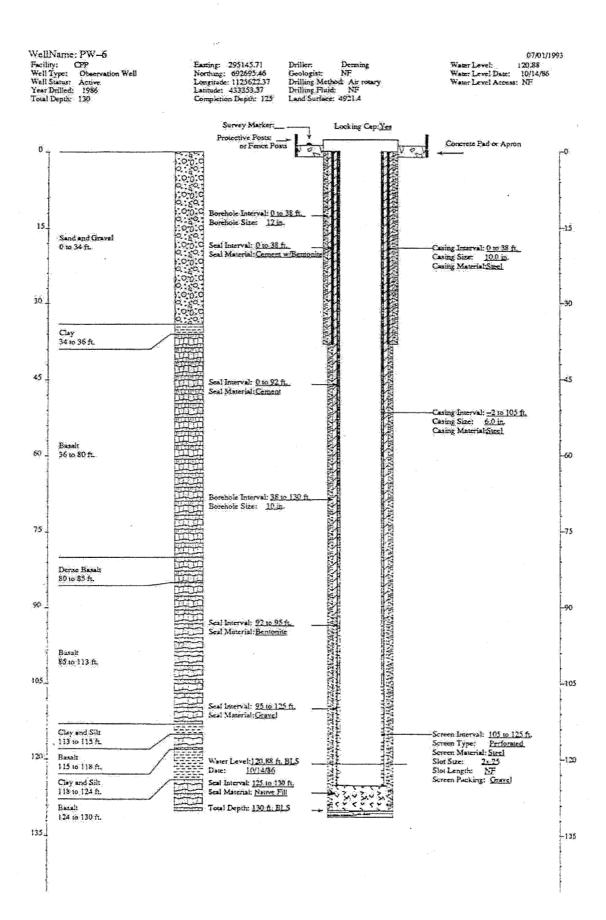


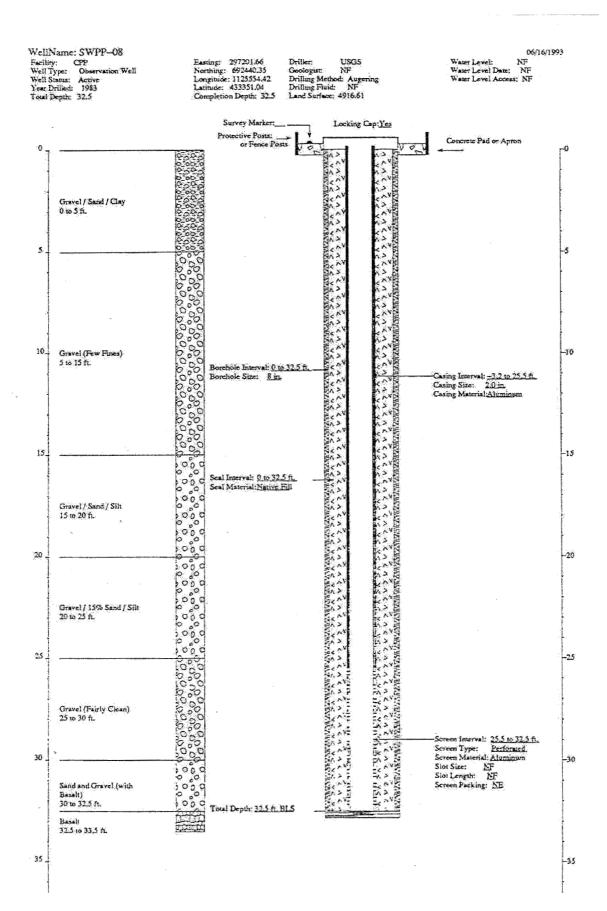


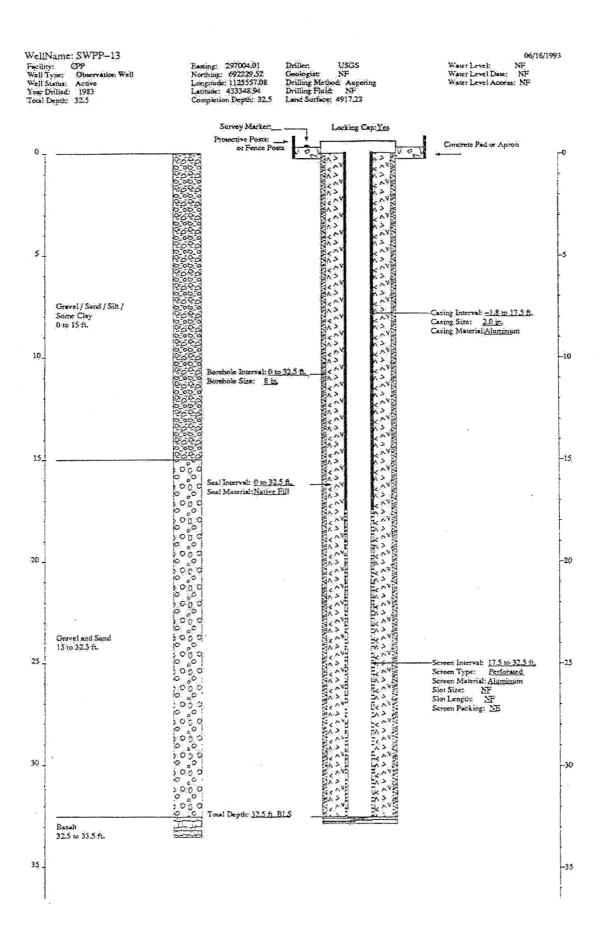


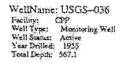


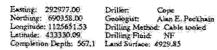


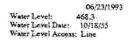


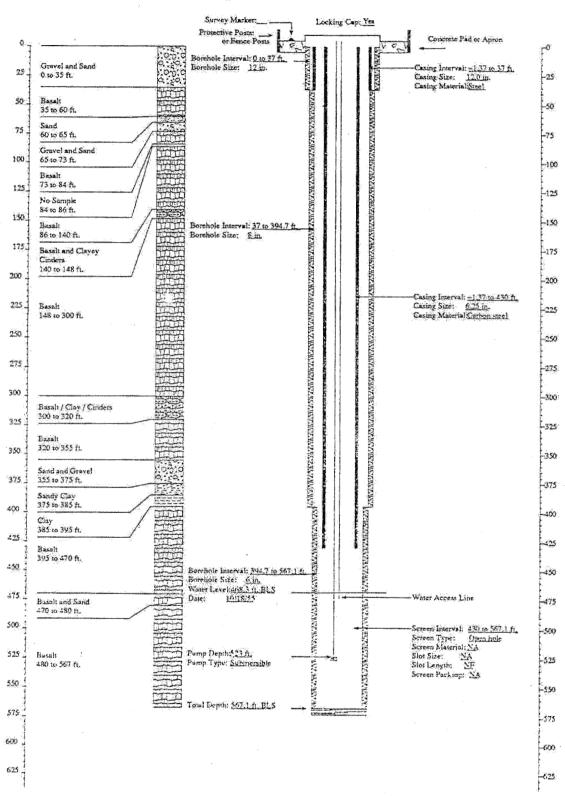


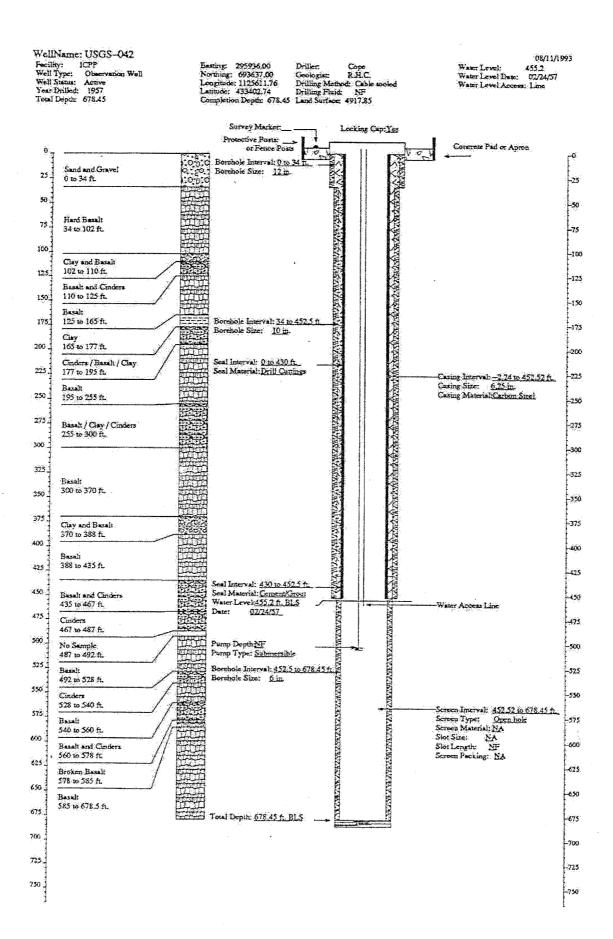


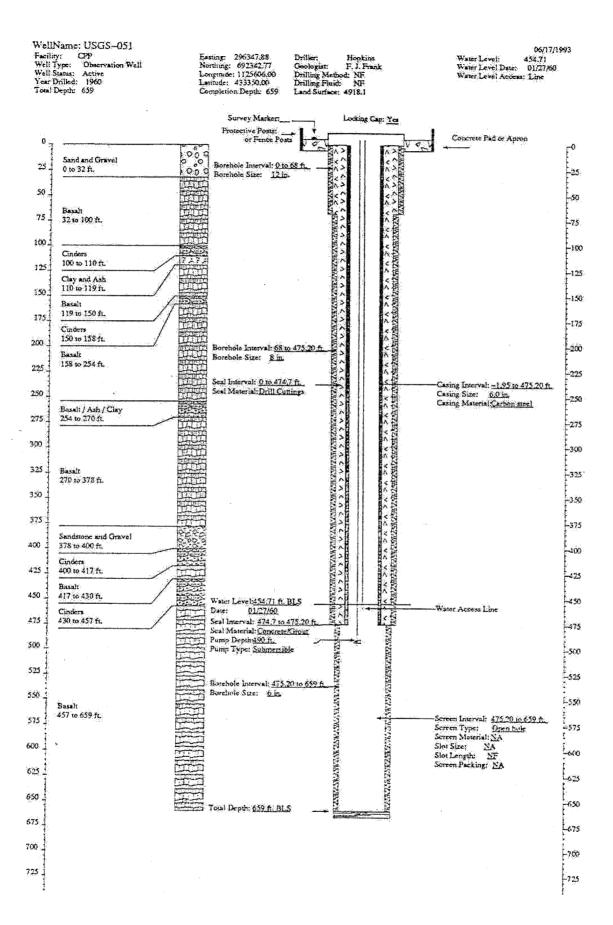


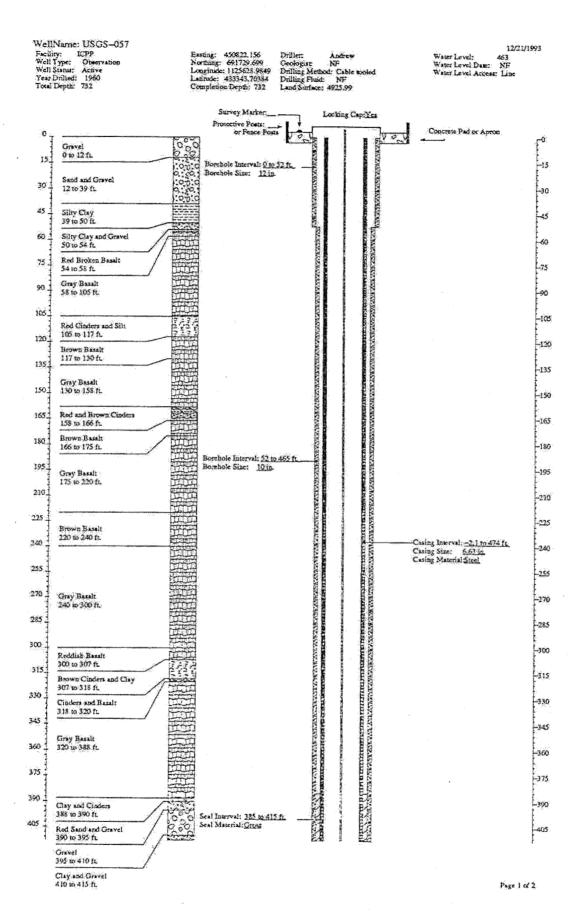


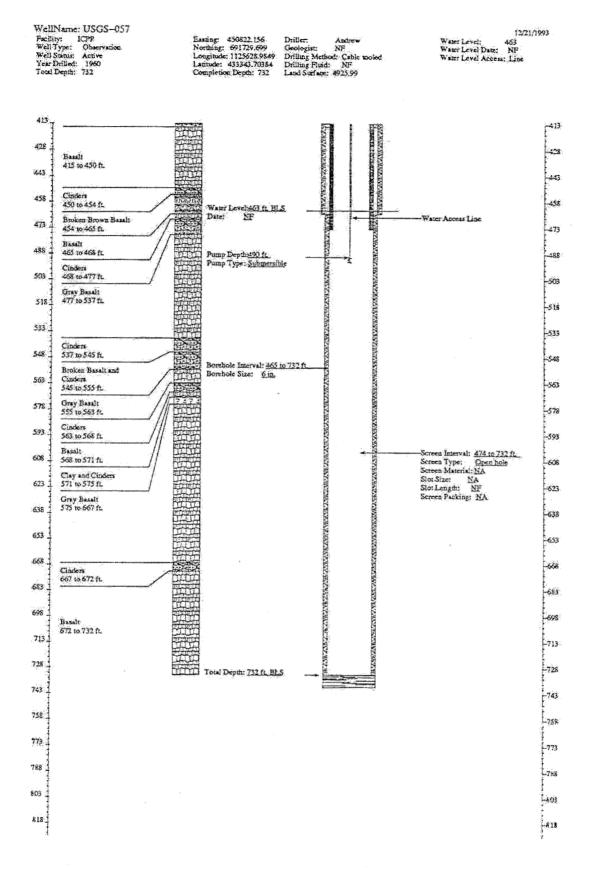




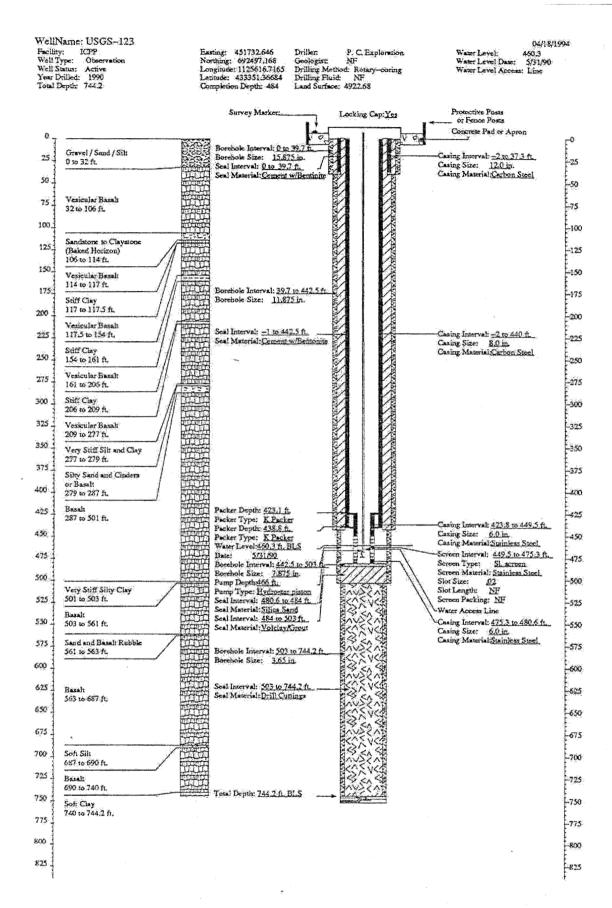








Page 2 of 2



# Appendix C

Sampling and Analysis Plan Table for Chemical and Radiological Analysis

ICDFGROUNDWATER

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